



-1-

SEQUENCE LISTING

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<120> INDUCING CELLULAR IMMUNE RESPONSES TO  
HEPATITIS B VIRUS USING PEPTIDE AND NUCLEIC ACID  
COMPOSITIONS

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<141> 1999-07-08

<150> US 09/189,702

<151> 1998-11-10

<150> US 08/205,713

<151> 1994-03-04

<150> US 08/159,184

<151> 1993-11-29

<150> US 08/073,205

<151> 1993-06-04

<150> US 08/027,146

<151> 1993-03-05

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Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr  
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Asp Val Leu Cys Leu Arg Pro Val Gly Ala  
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Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe  
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Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu  
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Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu  
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His Pro Ile Ile Leu Gly Phe Arg Lys Ile  
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<210> 1846  
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Ile Ile Leu Gly Phe Arg Lys Ile Pro Met  
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<210> 1847

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Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu  
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<210> 1848

<211> 10

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<400> 1848

Ile Leu Arg Gly Thr Ser Phe Val Tyr Val  
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<210> 1849

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Ile Leu Ser Thr Leu Pro Glu Thr Thr Val  
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<210> 1850

<211> 10

<212> PRT

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<400> 1850

Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala  
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<210> 1851

<211> 10

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Ile Pro Met Gly Val Gly Leu Ser Pro Phe  
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<210> 1853  
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Lys Leu Cys Leu Gly Trp Leu Trp Gly Met  
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Lys Leu His Leu Tyr Ser His Pro Ile Ile  
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Lys Gln Ala Phe Thr Phe Ser Pro Thr Tyr  
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Lys Val Cys Gln Arg Ile Val Gly Leu Leu  
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Lys Val Leu His Lys Arg Thr Leu Gly Leu  
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Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr  
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Leu Leu Cys Leu Ile Phe Leu Leu Val Leu

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Leu Leu Gly Cys Ala Ala Asn Trp Ile Leu  
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Leu Leu Pro Ile Phe Phe Cys Leu Trp Val  
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Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe  
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Leu Leu Val Leu Leu Asp Tyr Gln Gly Met  
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Leu Leu Val Leu Gln Ala Gly Phe Phe Leu  
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Leu Leu Val Pro Phe Val Gln Trp Phe Val  
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Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr  
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<210> 1870  
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Leu Pro Ile His Thr Ala Glu Leu Leu Ala  
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<210> 1871

<211> 10

<212> PRT

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<223> Artificially Synthesized Peptide

<400> 1871

Leu Pro Lys Val Leu His Lys Arg Thr Leu  
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<210> 1872

<211> 10

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Leu Pro Leu Asp Lys Gly Ile Lys Pro Tyr  
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<210> 1873

<211> 10

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Leu Val Leu Leu Asp Tyr Gln Gly Met Leu  
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Leu Val Leu Gln Ala Gly Phe Phe Leu Leu  
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Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu  
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Asn Leu Ser Val Pro Asn Pro Leu Gly Phe  
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<210> 1878  
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Asn Pro Asn Lys Thr Lys Arg Trp Gly Tyr  
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<210> 1879  
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Asn Val Ser Ile Pro Trp Thr His Lys Val  
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<210> 1880  
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Pro Ile Asp Trp Lys Val Cys Gln Arg Ile  
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<210> 1881  
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<400> 1881  
Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile  
1 5 10

<210> 1882  
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<400> 1882  
Pro Ile His Thr Ala Glu Leu Leu Ala Ala  
1 5 10

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<400> 1883  
Pro Leu Asp Lys Gly Ile Lys Pro Tyr Tyr  
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<210> 1884  
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<400> 1884  
Pro Leu Glu Glu Glu Leu Pro Arg Leu Ala

1 5 10

<210> 1885  
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<400> 1885  
Pro Leu Gly Phe Phe Pro Asp His Gln Leu  
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<210> 1886  
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<400> 1886  
Pro Leu His Pro Ala Ala Met Pro His Leu  
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<210> 1887  
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<400> 1887  
Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp  
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<210> 1888  
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Pro Leu Leu Val Leu Gln Ala Gly Phe Phe  
1 5 10

<210> 1889  
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<400> 1889

Pro Leu Pro Ile His Thr Ala Glu Leu Leu  
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<210> 1890

<211> 10

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<400> 1890

Pro Leu Ser Tyr Gln His Phe Arg Lys Leu  
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<210> 1891

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<223> Artificially Synthesized Peptide

<400> 1891

Pro Leu Thr Val Asn Glu Lys Arg Arg Leu  
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<210> 1892

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<223> Artificially Synthesized Peptide

<400> 1892

Pro Met Gly Val Gly Leu Ser Pro Phe Leu  
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<210> 1893

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<400> 1893

Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu  
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<210> 1894

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<400> 1894

Pro Val Asn Arg Pro Ile Asp Trp Lys Val  
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<210> 1895

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<400> 1895

Gln Leu Leu Trp Phe His Ile Ser Cys Leu  
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<210> 1896

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<400> 1896

Arg Ile Val Gly Leu Leu Gly Phe Ala Ala  
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<210> 1897

<211> 10

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<400> 1897

Arg Leu Lys Leu Ile Met Pro Ala Arg Phe  
1 5 10

<210> 1898

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<223> Artificially Synthesized Peptide

<400> 1898

Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu  
1 5 10

<210> 1899

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<212> PRT  
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<400> 1899  
Arg Val His Phe Ala Ser Pro Leu His Val  
1 5 10

<210> 1900  
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<220>  
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<400> 1900  
Ser Leu Leu Val Pro Phe Val Gln Trp Phe  
1 5 10

<210> 1901  
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<220>  
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Val Gln Ala Ser Lys Leu Cys Leu Gly Trp  
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Val Val Leu Ser Arg Lys Tyr Thr Ser Phe  
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Val Val Arg Arg Ala Phe Pro His Cys Leu  
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<210> 1917

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Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr  
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<210> 1918

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<210> 1919

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Trp	Leu	Ser	Leu	Asp	Val	Ser	Ala	Ala	Phe
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<400> 1920

Trp	Leu	Trp	Gly	Met	Asp	Ile	Asp	Pro	Tyr
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<210> 1921

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<210> 1922

<211> 10

<212> PRT

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<400> 1922

Trp	Met	Met	Trp	Tyr	Trp	Gly	Pro	Ser	Leu
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<210> 1923

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<400> 1923  
Tyr Leu His Thr Leu Trp Lys Ala Gly Ile  
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Tyr Gln Gly Met Leu Pro Val Cys Pro Leu  
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Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr  
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<400> 1941  
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<400> 1942

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<400> 1943

Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala  
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Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile  
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Leu Pro Leu Asp Lys Gly Ile Lys Pro Tyr Tyr  
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Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile  
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<210> 1981  
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<400> 1981  
Pro Leu His Pro Ala Ala Met Pro His Leu Leu  
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<210> 1982  
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<400> 1982  
Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val  
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<210> 1983  
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<400> 1983  
Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu  
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<210> 1984  
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<400> 1984  
Pro Leu Pro Ile His Thr Ala Glu Leu Leu Ala  
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<210> 1985  
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<400> 1985

Pro Leu Ser Tyr Gln His Phe Arg Lys Leu Leu  
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<210> 1986

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<210> 1987

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<400> 1987

Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile  
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Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu  
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<400> 1992  
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<210> 1993  
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<210> 1994  
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<400> 1994  
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Arg Val Ala Glu Asp Leu Asn Leu Gly Asn Leu  
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<400> 2003  
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Phe Ala Ala Pro Phe Thr Gln Cys Gly Tyr  
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Gly Phe Ala Ala Pro Phe Thr Gln Cys Gly Tyr  
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Gly Arg Glu Thr Val Leu Glu Tyr  
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Gly Tyr Ser Leu Asn Phe Met Gly Tyr  
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His Thr Leu Trp Lys Ala Gly Ile Leu Tyr  
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<400> 2039

Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr  
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<400> 2040

Met Ser Thr Thr Asp Leu Glu Ala Tyr  
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<400> 2042

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<400> 2081  
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<400> 2097  
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<400> 2098  
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Tyr Ser Leu Asn Phe Met Gly Tyr Val  
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Tyr Val Pro Ser Ala Leu Asn Pro Ala  
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Phe Phe Cys Leu Trp Val Tyr Ile Glx  
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Met Gly Thr Asn Leu Ser Val Pro Asn  
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<210> 3021

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<400> 3021

Leu Leu Gly Phe Ala Ala Pro Phe Thr Gln Cys Gly Tyr Pro Ala  
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<210> 3022

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<212> PRT

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<400> 3022

Cys	Gln	Val	Phe	Ala	Asp	Ala	Thr	Pro	Thr	Gly	Trp	Gly	Leu	Ala
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Trp	Pro	Lys	Phe	Ala	Val	Pro	Asn	Leu	Gln	Ser	Leu	Thr	Asn	Leu
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<210> 3024

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Cys	Leu	Thr	Phe	Gly	Arg	Glu	Thr	Val	Leu	Glu	Tyr	Leu	Val	Ser
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<210> 3025

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<400> 3025

Arg	Arg	Ser	Phe	Gly	Val	Glu	Pro	Ser	Gly	Ser	Gly	His	Ile	Asp
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<210> 3026

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<212> PRT

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<400> 3026

Leu	Leu	Trp	Phe	His	Ile	Ser	Cys	Leu	Thr	Phe	Gly	Arg	Glu	Thr
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<210> 3027

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<212> PRT  
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<400> 3027  
Met Gln Leu Phe His Leu Cys Leu Ile Ile Ser Cys Ser Cys Pro  
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<210> 3028  
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<400> 3028  
Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val  
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<210> 3029  
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Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu  
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<210> 3030  
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Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe  
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<400> 3031  
Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser  
1 5 10 15

<210> 3032  
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Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu  
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<210> 3033  
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<210> 3034  
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<210> 3037

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Lys Gln Cys Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp  
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<210> 3038

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<400> 3038

Val Cys Ala Phe Ser Ser Ala Gly Pro Cys Ala Leu Arg Phe Thr  
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<210> 3039

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Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln  
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<400> 3040

Lys Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys  
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Val	Gly	Asn	Phe	Thr	Gly	Leu	Tyr	Ser	Ser	Thr	Val	Pro	Val	Phe
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Leu	Ala	Gln	Phe	Thr	Ser	Ala	Ile	Cys	Ser	Val	Val	Arg	Arg	Ala
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<400> 3043

Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	Thr	Val	Trp	Leu	Ser	Val
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<400> 3044

Leu	Lys	Val	Phe	Val	Leu	Gly	Gly	Cys	Arg	His	Lys	Leu	Val	Cys
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<400> 3045

Leu	Val	Pro	Phe	Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	Thr	Val
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<210> 3046

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Gly	Thr	Ser	Phe	Val	Tyr	Val	Pro	Ser	Ala	Leu	Asn	Pro	Ala	Asp
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<212> PRT

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<400> 3047

Asn	Arg	Pro	Ile	Asp	Trp	Lys	Val	Cys	Gln	Arg	Ile	Val	Gly	Leu
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Arg	Phe	Ile	Ile	Phe	Leu	Phe	Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe
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<400> 3049

Leu	Cys	Leu	Ile	Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met
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<210> 3050

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<400> 3050

Ala	Lys	Leu	Ile	Gly	Thr	Asp	Asn	Ser	Val	Val	Leu	Ser	Arg	Lys
1				5					10					15

<210> 3051

<211> 15

<212> PRT  
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<400> 3051  
Pro Leu Pro Ile His Thr Ala Glu Leu Leu Ala Ala Cys Phe Ala  
1 5 10 15

<210> 3052  
<211> 15  
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<220>  
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<400> 3052  
Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile  
1 5 10 15

<210> 3053  
<211> 15  
<212> PRT  
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<400> 3053  
Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu  
1 5 10 15

<210> 3054  
<211> 15  
<212> PRT  
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<220>  
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<400> 3054  
Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro Ser  
1 5 10 15

<210> 3055  
<211> 15  
<212> PRT  
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<220>  
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<400> 3055  
Asn Ala Pro Ile Leu Ser Thr Leu Pro Glu Thr Thr Val Val Arg  
1 5 10 15

<210> 3056  
<211> 15  
<212> PRT  
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<220>  
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<400> 3056  
Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe  
1 5 10 15

<210> 3057  
<211> 15  
<212> PRT  
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<220>  
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<400> 3057  
Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala  
1 5 10 15

<210> 3058  
<211> 15  
<212> PRT  
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<400> 3058  
Ala Glu Leu Leu Ala Ala Cys Phe Ala Arg Ser Arg Ser Gly Ala  
1 5 10 15

<210> 3059  
<211> 15  
<212> PRT  
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<400> 3059  
Pro His Cys Leu Ala Phe Ser Tyr Met Asp Asp Val Val Leu Gly  
1 5 10 15

<210> 3060  
<211> 15  
<212> PRT  
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<400> 3060  
Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val Val

1 5 10 15

<210> 3061  
<211> 15  
<212> PRT  
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<400> 3061  
Ala Ser Lys Leu Cys Leu Gly Trp Leu Trp Gly Met Asp Ile Asp  
1 5 10 15

<210> 3062  
<211> 15  
<212> PRT  
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<220>  
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<400> 3062  
Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr  
1 5 10 15

<210> 3063  
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<212> PRT  
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<220>  
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<400> 3063  
Arg Asp Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg Gly  
1 5 10 15

<210> 3064  
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<212> PRT  
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<400> 3064  
Arg Pro Gly Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly  
1 5 10 15

<210> 3065  
<211> 15  
<212> PRT  
<213> Artificial Sequence

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<400> 3065

Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly  
1 5 10 15

<210> 3066

<211> 15

<212> PRT

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<400> 3066

Arg Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu  
1 5 10 15

<210> 3067

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3067

Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His Ile Pro Leu  
1 5 10 15

<210> 3068

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3068

Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu  
1 5 10 15

<210> 3069

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3069

Ala Gly Pro Leu Glu Glu Glu Leu Pro Arg Leu Ala Asp Glu Gly  
1 5 10 15

<210> 3070

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3070

Ile	Ile	Phe	Leu	Phe	Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe	Leu	Leu
1				5					10					15

<210> 3071

<211> 15

<212> PRT

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<400> 3071

Asp	Val	Val	Leu	Gly	Ala	Lys	Ser	Val	Gln	His	Leu	Glu	Ser	Leu
1				5					10					15

<210> 3072

<211> 15

<212> PRT

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<400> 3072

Val	Gly	Leu	Leu	Gly	Phe	Ala	Ala	Pro	Phe	Thr	Gln	Cys	Gly	Tyr
1				5					10					15

<210> 3073

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3073

Pro	Ile	Ile	Leu	Gly	Phe	Arg	Lys	Ile	Pro	Met	Gly	Val	Gly	Leu
1				5					10					15

<210> 3074

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3074

Asp	Leu	Asn	Leu	Gly	Asn	Leu	Asn	Val	Ser	Ile	Pro	Trp	Thr	His
1				5					10					15

<210> 3075

<211> 15

<212> PRT  
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<220>  
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<400> 3075  
Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe  
1 5 10 15

<210> 3076  
<211> 15  
<212> PRT  
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<220>  
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<400> 3076  
His Leu Pro Leu His Pro Ala Ala Met Pro His Leu Leu Val Gly  
1 5 10 15

<210> 3077  
<211> 15  
<212> PRT  
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<220>  
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<400> 3077  
Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly  
1 5 10 15

<210> 3078  
<211> 15  
<212> PRT  
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<220>  
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<400> 3078  
Lys Arg Arg Leu Lys Leu Ile Met Pro Ala Arg Phe Tyr Pro Asn  
1 5 10 15

<210> 3079  
<211> 15  
<212> PRT  
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<220>  
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<400> 3079  
Glu Ile Arg Leu Lys Val Phe Val Leu Gly Gly Cys Arg His Lys  
1 5 10 15

<210> 3080  
<211> 15  
<212> PRT  
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<220>  
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<400> 3080  
Ser Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val  
1 5 10 15

<210> 3081  
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<220>  
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<400> 3081  
Ile Arg Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr Arg Glu Ala  
1 5 10 15

<210> 3082  
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<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3082  
Phe Pro Trp Leu Leu Gly Cys Ala Ala Asn Trp Ile Leu Arg Gly  
1 5 10 15

<210> 3083  
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<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3083  
Ile Val Gly Leu Leu Gly Phe Ala Ala Pro Phe Thr Gln Cys Gly  
1 5 10 15

<210> 3084  
<211> 15  
<212> PRT  
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<220>  
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<400> 3084  
His Gly Gly Leu Leu Gly Trp Ser Pro Gln Ala Gln Gly Ile Leu

1 5 10 15

<210> 3085

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3085

Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu  
1 5 10 15

<210> 3086

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3086

Ser Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser  
1 5 10 15

<210> 3087

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3087

Thr Asn Phe Leu Leu Ser Leu Gly Ile His Leu Asn Pro Asn Lys  
1 5 10 15

<210> 3088

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3088

Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp  
1 5 10 15

<210> 3089

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3089

Gly	Phe	Phe	Leu	Leu	Thr	Arg	Ile	Leu	Thr	Ile	Pro	Gln	Ser	Leu
1				5					10					15

<210> 3090

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3090

Leu	Gly	Pro	Leu	Leu	Val	Leu	Gln	Ala	Gly	Phe	Phe	Leu	Leu	Thr
1				5					10					15

<210> 3091

<211> 15

<212> PRT

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<220>

<223> Artificially Synthesized Peptide

<400> 3091

Trp	Leu	Ser	Leu	Leu	Val	Pro	Phe	Val	Gln	Trp	Phe	Val	Gly	Leu
1				5					10					15

<210> 3092

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3092

Ile	Arg	Gln	Leu	Leu	Trp	Phe	His	Ile	Ser	Cys	Leu	Thr	Phe	Gly
1				5					10					15

<210> 3093

<211> 15

<212> PRT

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<220>

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<400> 3093

Tyr	Pro	Ala	Leu	Met	Pro	Leu	Tyr	Ala	Cys	Ile	Gln	Ser	Lys	Gln
1				5					10					15

<210> 3094

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3094

Ala	Glu	Asp	Leu	Asn	Leu	Gly	Asn	Leu	Asn	Val	Ser	Ile	Pro	Trp
1				5					10					15

<210> 3095

<211> 15

<212> PRT

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<400> 3095

Gly	Ile	His	Leu	Asn	Pro	Asn	Lys	Thr	Lys	Arg	Trp	Gly	Tyr	Ser
1				5					10					15

<210> 3096

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3096

Asp	Glu	Gly	Leu	Asn	Arg	Arg	Val	Ala	Glu	Asp	Leu	Asn	Leu	Gly
1				5					10					15

<210> 3097

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3097

Leu	Gly	Asn	Leu	Asn	Val	Ser	Ile	Pro	Trp	Thr	His	Lys	Val	Gly
1				5					10					15

<210> 3098

<211> 15

<212> PRT

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<220>

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<400> 3098

Leu	Ser	Thr	Leu	Pro	Glu	Thr	Thr	Val	Val	Arg	Arg	Arg	Gly	Arg
1				5					10					15

<210> 3099

<211> 15

<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3099  
Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile Glx  
1 5 10 15

<210> 3100  
<211> 15  
<212> PRT  
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<220>  
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<400> 3100  
Val Ala Pro Leu Pro Ile His Thr Ala Glu Leu Leu Ala Ala Cys  
1 5 10 15

<210> 3101  
<211> 15  
<212> PRT  
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<220>  
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<400> 3101  
Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp Lys Val Cys  
1 5 10 15

<210> 3102  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3102  
Cys Trp Trp Leu Gln Phe Arg Asn Ser Lys Pro Cys Ser Asp Tyr  
1 5 10 15

<210> 3103  
<211> 15  
<212> PRT  
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<220>  
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<400> 3103  
His Leu Ser Leu Arg Gly Leu Pro Val Cys Ala Phe Ser Ser Ala  
1 5 10 15

<210> 3104  
<211> 15  
<212> PRT  
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<220>  
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<400> 3104  
Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg Gly Arg Pro  
1 5 10 15

<210> 3105  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3105  
His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu Met  
1 5 10 15

<210> 3106  
<211> 15  
<212> PRT  
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<220>  
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<400> 3106  
Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu  
1 5 10 15

<210> 3107  
<211> 15  
<212> PRT  
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<220>  
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<400> 3107  
Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Ile  
1 5 10 15

<210> 3108  
<211> 15  
<212> PRT  
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<220>  
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<400> 3108  
Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His Ile

1 5 10 15

<210> 3109  
<211> 15  
<212> PRT  
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<220>  
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<400> 3109  
Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val  
1 5 10 15

<210> 3110  
<211> 15  
<212> PRT  
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<220>  
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<400> 3110  
Gly Ala His Leu Ser Leu Arg Gly Leu Pro Val Cys Ala Phe Ser  
1 5 10 15

<210> 3111  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3111  
Gly Val Gly Leu Ser Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala  
1 5 10 15

<210> 3112  
<211> 15  
<212> PRT  
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<220>  
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<400> 3112  
Ser Val Val Leu Ser Arg Lys Tyr Thr Ser Phe Pro Trp Leu Leu  
1 5 10 15

<210> 3113  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3113

Thr	Asn	Leu	Leu	Ser	Ser	Asn	Leu	Ser	Trp	Leu	Ser	Leu	Asp	Val
1				5					10				15	

<210> 3114

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3114

Gly	Thr	Asn	Leu	Ser	Val	Pro	Asn	Pro	Leu	Gly	Phe	Phe	Pro	Asp
1				5					10				15	

<210> 3115

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3115

Ser	Ser	Asn	Leu	Ser	Trp	Leu	Ser	Leu	Asp	Val	Ser	Ala	Ala	Phe
1				5					10				15	

<210> 3116

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3116

Thr	Arg	Ile	Leu	Thr	Ile	Pro	Gln	Ser	Leu	Asp	Ser	Trp	Trp	Thr
1				5					10				15	

<210> 3117

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3117

Leu	Gln	Ser	Leu	Thr	Asn	Leu	Leu	Ser	Ser	Asn	Leu	Ser	Trp	Leu
1				5					10				15	

<210> 3118

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3118

Phe	Phe	Leu	Leu	Thr	Arg	Ile	Leu	Thr	Ile	Pro	Gln	Ser	Leu	Asp
1				5					10					15

<210> 3119

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3119

Gly	Val	Phe	Leu	Val	Asp	Lys	Asn	Pro	His	Asn	Thr	Thr	Glu	Ser
1				5					10					15

<210> 3120

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3120

Leu	Glu	Tyr	Leu	Val	Ser	Phe	Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro
1				5					10					15

<210> 3121

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3121

Glu	Ser	Arg	Leu	Val	Val	Asp	Phe	Ser	Gln	Phe	Ser	Arg	Gly	Asn
1				5					10					15

<210> 3122

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3122

Arg	Gln	Leu	Leu	Trp	Phe	His	Ile	Ser	Cys	Leu	Thr	Phe	Gly	Arg
1				5					10					15

<210> 3123

<211> 15

<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3123  
Leu Gly Trp Leu Trp Gly Met Asp Ile Asp Pro Tyr Lys Glu Phe  
1 5 10 15

<210> 3124  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3124  
Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys Arg Glu Thr  
1 5 10 15

<210> 3125  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3125  
Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys  
1 5 10 15

<210> 3126  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificially Synthesized Peptide

<400> 3126  
Lys Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys  
1 5 10 15

<210> 3127  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3127  
Phe Ser Tyr Met Asp Asp Val Val Leu Gly Ala Lys Ser Val Gln  
1 5 10 15

<210> 3128  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3128  
Lys Ile Pro Met Gly Val Gly Leu Ser Pro Phe Leu Leu Ala Gln  
1 5 10 15

<210> 3129  
<211> 15  
<212> PRT  
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<220>  
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<400> 3129  
Pro Ala Ala Met Pro His Leu Leu Val Gly Ser Ser Gly Leu Ser  
1 5 10 15

<210> 3130  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3130  
Pro Gln Ala Met Gln Trp Asn Ser Thr Thr Phe His Gln Thr Leu  
1 5 10 15

<210> 3131  
<211> 15  
<212> PRT  
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<220>  
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<400> 3131  
Leu Ser Ala Met Ser Thr Thr Asp Leu Glu Ala Tyr Phe Lys Asp  
1 5 10 15

<210> 3132  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3132  
Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu

1 5 10 15

<210> 3133

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3133

Gly Leu Pro Val Cys Ala Phe Ser Ser Ala Gly Pro Cys Ala Leu  
1 5 10 15

<210> 3134

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3134

Asp Trp Lys Val Cys Gln Arg Ile Val Gly Leu Leu Gly Phe Ala  
1 5 10 15

<210> 3135

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3135

Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu  
1 5 10 15

<210> 3136

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3136

Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile  
1 5 10 15

<210> 3137

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3137  
Gln Gln Tyr Val Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu  
1 5 10 15

<210> 3138  
<211> 15  
<212> PRT  
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<220>  
<223> Artificially Synthesized Peptide

<400> 3138  
Pro Asp Arg Val His Phe Ala Ser Pro Leu His Val Ala Trp Arg  
1 5 10 15

<210> 3139  
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Ser	Phe	Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala	Tyr	Arg	Pro	Pro
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Gln	Leu	Leu	Trp	Phe	His	Ile	Ser	Cys	Leu	Thr	Phe	Gly	Arg	Glu
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<400> 3151

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Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys Ile  
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Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp Asp Pro  
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Thr	Lys	Tyr	Leu	Pro	Leu	Asp	Lys	Gly	Ile	Lys	Pro	Tyr	Tyr	Pro
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Leu	Trp	Gly	Met	Asp	Ile	Asp	Pro	Tyr	Lys	Glu	Phe	Gly	Ala	Ser
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Leu	Cys	Gln	Val	Phe	Ala	Asp	Ala	Thr	Pro	Thr	Gly	Trp	Gly	Leu
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Phe Val Phe Ser Pro Thr Tyr Lys

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Phe Leu Leu Thr Arg Ile Leu Thr Val

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<400> 3294

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<210> 3302  
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1 5 10

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Tyr Met Phe Asp Val Val Leu Gly Ala Lys  
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<210> 3322

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<210> 3324

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<222> (4)...(4)

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<400> 3327

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<210> 3330  
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Gly Pro Xaa Ala Leu Arg Phe Thr Ser Ala  
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<210> 3331  
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<222> (4)...(4)

<223> Xaa = Any Amino Acid

<400> 3331

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His Met Leu Trp Lys Ala Gly Ile Leu Tyr Lys  
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<400> 3333

His Val Leu Trp Lys Ala Gly Ile Leu Tyr Lys  
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<210> 3334

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<400> 3334

Ser Met Leu Pro Glu Thr Thr Val Val Arg Arg  
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<210> 3335

<211> 11

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<400> 3335

Ser Val Leu Pro Glu Thr Thr Val Val Arg Arg  
1 5 10

<210> 3336

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<400> 3336  
Gly Met Asp Asn Ser Val Val Leu Ser Arg Lys  
1 5 10

<210> 3337  
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Gly Val Asp Asn Ser Val Val Leu Ser Arg Lys  
1 5 10

<210> 3338  
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Leu Pro Ile Phe Phe Cys Leu Ile  
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Tyr Pro Ala Leu Met Pro Leu Ile  
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<400> 3343  
Val Pro Ser Ala Leu Asn Pro Ile  
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Leu Pro Ile His Thr Ala Glu Leu Ile  
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Val Pro Phe Val Gln Trp Phe Val Gly Ile  
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<400> 3347  
Asn Pro Leu Gly Phe Phe Pro Asp His Gln Ile  
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Tyr Leu His Thr Leu Trp Lys Ala Gly Val  
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<210> 3351

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Ser Thr Leu Pro Glu Thr Tyr Val Val Arg Arg  
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Tyr Met Asp Asp Val Val Leu Gly Val  
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<400> 3353

Phe Pro Ile Pro Ser Ser Trp Ala Phe  
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<400> 3354

Ile Pro Ile Thr Ser Ser Trp Ala Phe  
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<400> 3355

Ile Pro Ile Leu Ser Ser Trp Ala Phe  
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<210> 3356

<211> 9

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<400> 3356

Phe Pro Val Cys Leu Ala Phe Ser Tyr  
1 5

<210> 3357

<211> 9

<212> PRT

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<400> 3357

Phe Pro His Cys Leu Ala Phe Ala Tyr  
1 5

<210> 3358

<211> 9

<212> PRT

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<400> 3358

Phe Pro His Cys Leu Ala Phe Ser Leu  
1 5

<210> 3359

<211> 9

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<400> 3359

Ile Pro Ile Pro Met Ser Trp Ala Phe  
1 5

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Phe Leu Pro Ser Glx Phe Phe Pro Ser Val  
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1 5

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Phe Pro Phe Cys Leu Ala Phe Ser Tyr  
1 5

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Phe Pro His Cys Leu Ala Phe Ser Ile  
1 5

<210> 3367  
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Phe Pro His Cys Leu Ala Phe Ser Ala  
1 5

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<400> 3369

Tyr Leu Leu Thr Arg Ile Leu Thr Ile  
1 5

<210> 3370

<211> 9

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<400> 3370

Phe Leu Tyr Thr Arg Ile Leu Thr Ile  
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<210> 3371

<211> 9

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<400> 3371

Phe Leu Leu Thr Tyr Ile Leu Thr Ile  
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<210> 3372

<211> 9

<212> PRT

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<400> 3372

Phe Leu Leu Thr Arg Ile Leu Tyr Ile  
1 5

<210> 3373

<211> 11

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<400> 3373

Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg  
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<210> 3374

<211> 9

<212> PRT

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<400> 3374

Phe Leu Pro Ser Asp Phe Phe Pro Ser  
1 5

<210> 3375

<211> 8

<212> PRT

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<400> 3375

Phe Leu Pro Ser Asp Phe Phe Pro  
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<210> 3376

<211> 10

<212> PRT

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<220>

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<400> 3376

Phe Leu Pro Ser Asp Phe Phe Pro Ser Ile  
1 5 10

<210> 3377

<211> 10

<212> PRT

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<400> 3377

Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val  
1 5 10

<210> 3378

<211> 12

<212> PRT

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<400> 3378

Tyr Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3379

<211> 10

<212> PRT  
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<220>  
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<400> 3379  
Tyr Asn Met Gly Leu Lys Phe Arg Gln Leu  
1 5 10

<210> 3380  
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<212> PRT  
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<400> 3380  
Asn Met Gly Leu Lys Tyr Arg Gln Leu  
1 5

<210> 3381  
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<223> Xaa = Any Amino Acid

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<210> 3382  
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<220>  
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<222> (6)...(6)  
<223> Xaa = Any Amino Acid

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Phe Leu Pro Ser Asp Xaa Phe Pro Ser Val  
1 5 10

<210> 3383  
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<212> PRT  
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<400> 3383  
Phe Leu Pro Ser Asp Leu Leu Pro Ser Val Arg  
1 5 10

<210> 3384  
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<400> 3384  
Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp  
1 5 10

<210> 3385  
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<400> 3385  
Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3386  
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<212> PRT  
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<400> 3386  
Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3387  
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<212> PRT  
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<400> 3387  
Pro Ser Asp Phe Phe Pro Ser Val  
1 5

<210> 3388  
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Phe Leu Met Ser Tyr Phe Pro Ser Val  
1 5

<210> 3389  
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<212> PRT  
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<400> 3389  
Phe Leu Pro Ser Tyr Phe Pro Ser Val  
1 5

<210> 3390  
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<400> 3390  
Phe Leu Met Ser Asp Tyr Phe Pro Ser Val  
1 5 10

<210> 3391  
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<400> 3391  
Cys Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu  
1 5 10

<210> 3392  
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<400> 3392  
Phe Leu Pro Asn Asp Phe Phe Pro Ser Ala

1 5 10

<210> 3393  
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<400> 3393  
Phe Leu Pro Asp Asp Phe Phe Pro Ser Ala  
1 5 10

<210> 3394  
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Phe Leu Pro Asn Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3395  
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<212> PRT  
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<400> 3395  
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1 5 10

<210> 3396  
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<400> 3396  
Phe Leu Pro Asp Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3397  
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<400> 3397  
Phe Leu Pro Ala Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3398  
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<212> PRT  
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<400> 3398  
Phe Leu Pro Val Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3399  
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<212> PRT  
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<400> 3399  
Phe Leu Pro Ala Asp Phe Phe Pro Ser Ile  
1 5 10

<210> 3400  
<211> 10  
<212> PRT  
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<220>  
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<400> 3400  
Phe Leu Pro Val Asp Phe Phe Pro Ser Ile  
1 5 10

<210> 3401  
<211> 10  
<212> PRT  
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<400> 3401  
Phe Leu Pro Ser Asp Ala Phe Pro Ser Val  
1 5 10

<210> 3402  
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<400> 3402

Phe Leu Pro Ser Ala Phe Phe Pro Ser Val  
1 5 10

<210> 3403

<211> 10

<212> PRT

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<400> 3403

Phe Leu Pro Ser Asp Phe Ala Pro Ser Val  
1 5 10

<210> 3404

<211> 10

<212> PRT

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<400> 3404

Phe Leu Pro Ser Asp Phe Phe Ala Ser Val  
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<210> 3405

<211> 10

<212> PRT

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<400> 3405

Phe Leu Pro Ser Asp Phe Phe Pro Ala Val  
1 5 10

<210> 3406

<211> 10

<212> PRT

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<400> 3406

Phe Leu Ala Ser Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3407

<211> 10

<212> PRT  
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<400> 3407  
Phe Ala Pro Ser Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3408  
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<400> 3408  
Ala Leu Pro Ser Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3409  
<211> 10  
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<400> 3409  
Tyr Leu Pro Ser Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3410  
<211> 10  
<212> PRT  
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<220>  
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<400> 3410  
Phe Met Pro Ser Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3411  
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<212> PRT  
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<220>  
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<400> 3411  
Phe Leu Lys Ser Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3412  
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<212> PRT  
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<220>  
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<400> 3412  
Phe Leu Pro Ser Glu Phe Phe Pro Ser Val  
1 5 10

<210> 3413  
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<212> PRT  
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<220>  
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<400> 3413  
Phe Leu Pro Ser Asp Phe Tyr Pro Ser Val  
1 5 10

<210> 3414  
<211> 10  
<212> PRT  
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<220>  
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<400> 3414  
Phe Leu Pro Ser Asp Phe Phe Lys Ser Val  
1 5 10

<210> 3415  
<211> 10  
<212> PRT  
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<220>  
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<400> 3415  
Phe Leu Pro Ser Asp Phe Phe Pro Lys Val  
1 5 10

<210> 3416  
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<222> (10)...(10)  
<223> Xaa = Val-CONH2

<400> 3416  
Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa  
1 5 10

<210> 3417  
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<220>  
<221> MOD\_RES  
<222> (10)...(10)  
<223> Xaa = Val-NH2

<400> 3417  
Val Leu Glu Tyr Leu Val Ser Phe Gly Xaa  
1 5 10

<210> 3418  
<211> 17  
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<220>  
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<220>  
<221> MOD\_RES  
<222> (17)...(17)  
<223> Xaa = Val-NH2

<400> 3418  
Ala Thr Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser  
1 5 10 15  
Xaa

<210> 3419  
<211> 16  
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<220>  
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<222> (16)...(16)  
<223> Xaa = Val-NH2

<400> 3419  
Thr Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa  
1 5 10 15

<210> 3420  
<211> 15  
<212> PRT  
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<220>  
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<220>  
<221> MOD\_RES  
<222> (15)...(15)  
<223> Xaa = Val-NH2

<400> 3420  
Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa  
1 5 10 15

<210> 3421  
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<220>  
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<222> (14)...(14)  
<223> Xaa = Val-NH2

<400> 3421  
Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa  
1 5 10

<210> 3422  
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<220>  
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<220>  
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<222> (13)...(13)  
<223> Xaa = Val-NH2

<400> 3422  
Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa  
1 5 10

<210> 3423  
<211> 12  
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<220>  
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<222> (12)...(12)  
<223> Xaa = Val-NH2

<400> 3423  
Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa  
1 5 10

<210> 3424  
<211> 11  
<212> PRT  
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<220>  
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<222> (11)...(11)  
<223> Xaa = Val-NH2

<400> 3424  
Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa  
1 5 10

<210> 3425  
<211> 10  
<212> PRT  
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<222> (10)...(10)  
<223> Xaa = Val-NH2

<400> 3425  
Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa  
1 5 10

<210> 3426  
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<212> PRT  
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Val Leu Gly Gly Ser Arg His Lys Leu  
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Cys Phe Arg Lys Leu Pro Val Asn Arg  
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Cys Gly Tyr Pro Ala Leu Met Pro Leu Tyr  
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Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr  
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Phe Pro Phe Lys Tyr Ala Ala Ala Phe  
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<210> 3486

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Tyr Ala Arg Phe Ser Gln Thr Thr Leu Lys Gln Lys Thr  
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<400> 3487

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
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Glu Ala Leu Ile His Gln Leu Lys Ile Asn Pro Tyr Val Leu Ser  
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Gln Tyr Ile Lys Ala Asn Ala Lys Phe Ile Gly Ile Thr Glu  
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Val Thr Pro Arg Thr Pro Pro Pro  
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Phe Leu Leu Thr Arg Ile Leu Thr Ile

1

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Ala Leu Met Pro Leu Tyr Ala Cys Ile

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Trp Leu Ser Leu Leu Val Pro Phe Val

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Phe Leu Leu Ala Gln Phe Thr Ser Ala  
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Gly Leu Ser Arg Tyr Val Ala Arg Leu  
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Phe Leu Leu Ser Leu Gly Ile His Leu  
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<210> 3508

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<400> 3508

His Leu Tyr Ser His Pro Ile Ile Leu  
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<210> 3509

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<400> 3511  
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<210> 3512  
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<400> 3513  
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<400> 3514  
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Leu Leu Pro Ile Phe Phe Cys Leu Trp Val  
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Pro Leu Leu Pro Ile Phe Phe Cys Leu  
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<400> 3517  
Leu Leu Val Leu Gln Ala Gly Phe Phe Leu  
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Gly Leu Ser Pro Thr Val Trp Leu Ser Val

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Ser Thr Leu Pro Glu Thr Thr Val Val Arg Arg  
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Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys  
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Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu  
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<400> 3748  
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1 5 10 15

<210> 3749  
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<400> 3749  
Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu

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<210> 3750  
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<400> 3750  
Asn Ala Pro Ile Leu Ser Thr Leu Pro Glu Thr Thr Val Val Arg  
1 5 10 15

<210> 3751  
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Ala Glu Asp Leu Asn Leu Gly Asn Leu Asn Val Ser Ile Pro Trp  
1 5 10 15

<210> 3752  
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<400> 3752  
Asn Leu Asn Val Ser Ile Pro Trp Thr His Lys Val Gly Asn Phe  
1 5 10 15

<210> 3753  
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<400> 3753  
Arg His Tyr Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys  
1 5 10 15

<210> 3754  
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<400> 3754

Lys Phe Ala Val Pro Asn Leu Gln Ser Leu Thr Asn Leu Leu Ser  
1 5 10 15

<210> 3755

<211> 15

<212> PRT

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<400> 3755

Val Pro Asn Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu  
1 5 10 15

<210> 3756

<211> 15

<212> PRT

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<400> 3756

Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu  
1 5 10 15

<210> 3757

<211> 15

<212> PRT

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<400> 3757

Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val  
1 5 10 15

<210> 3758

<211> 15

<212> PRT

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<400> 3758

Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe  
1 5 10 15

<210> 3759

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<212> PRT

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<400> 3759

Pro	Phe	Leu	Leu	Ala	Gln	Phe	Thr	Ser	Ala	Ile	Cys	Ser	Val	Val
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<400> 3760

Leu	Ala	Gln	Phe	Thr	Ser	Ala	Ile	Cys	Ser	Val	Val	Arg	Arg	Ala
1				5					10					15

<210> 3761

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<212> PRT

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<400> 3761

Cys	Ser	Val	Val	Arg	Arg	Ala	Phe	Pro	His	Cys	Leu	Ala	Phe	Ser
1				5					10					15

<210> 3762

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<400> 3762

Arg	Arg	Ala	Phe	Pro	His	Cys	Leu	Ala	Phe	Ser	Tyr	Met	Asp	Asp
1				5					10					15

<210> 3763

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<212> PRT

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<400> 3763

Ala	Phe	Ser	Tyr	Met	Asp	Asp	Val	Val	Leu	Gly	Ala	Lys	Ser	Val
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<210> 3764

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<212> PRT  
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<400> 3764  
Asp Trp Lys Val Cys Gln Arg Ile Val Gly Leu Leu Gly Phe Ala  
1 5 10 15

<210> 3765  
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<400> 3765  
Val Gly Leu Leu Gly Phe Ala Ala Pro Phe Thr Gln Cys Gly Tyr  
1 5 10 15

<210> 3766  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 3766  
Ala Ala Pro Phe Thr Gln Cys Gly Tyr Pro Ala Leu Met Pro Leu  
1 5 10 15

<210> 3767  
<211> 15  
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<220>  
<223> Artificial Peptide

<400> 3767  
Gln Cys Gly Tyr Pro Ala Leu Met Pro Leu Tyr Ala Cys Ile Gln  
1 5 10 15

<210> 3768  
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<400> 3768  
Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu  
1 5 10 15

<210> 3769  
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<400> 3769  
Ser Val Val Leu Ser Arg Lys Tyr Thr Ser Phe Pro Trp Leu Leu  
1 5 10 15

<210> 3770  
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<400> 3770  
Arg Asp Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg Gly  
1 5 10 15

<210> 3771  
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<400> 3771  
Gly Ala His Leu Ser Leu Arg Gly Leu Pro Val Cys Ala Phe Ser  
1 5 10 15

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<400> 3772  
Val Cys Ala Phe Ser Ser Ala Gly Pro Cys Ala Leu Arg Phe Thr  
1 5 10 15

<210> 3773  
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<400> 3773  
Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln

1 5 10 15

<210> 3774  
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<400> 3774  
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1 5 10 15

<210> 3775  
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<400> 3775  
Val Gly Asn Phe Thr Gly Leu Tyr Ser Ser Thr Val Pro Val Phe  
1 5 10 15

<210> 3776  
<211> 15  
<212> PRT  
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<220>  
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<400> 3776  
Thr Asn Phe Leu Leu Ser Leu Gly Ile His Leu Asn Pro Asn Lys  
1 5 10 15

<210> 3777  
<211> 15  
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<400> 3777  
Tyr Pro Ala Leu Met Pro Leu Tyr Ala Cys Ile Gln Ser Lys Gln  
1 5 10 15

<210> 3778  
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<220>  
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<400> 3778

Lys	Gln	Ala	Phe	Thr	Phe	Ser	Pro	Thr	Tyr	Lys	Ala	Phe	Leu	Cys
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<210> 3779

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<212> PRT

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<223> Artificial Peptide

<400> 3779

Pro	Leu	Pro	Ile	His	Thr	Ala	Glu	Leu	Leu	Ala	Ala	Cys	Phe	Ala
1				5					10				15	

<210> 3780

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 3780

Gly	Thr	Ser	Phe	Val	Tyr	Val	Pro	Ser	Ala	Leu	Asn	Pro	Ala	Asp
1				5					10				15	

<210> 3781

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<212> PRT

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<400> 3781

Pro	Leu	Gly	Phe	Phe	Pro	Asp	His	Gln	Leu	Asp	Pro
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<210> 3782

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3782

Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met	Leu	Pro	Val	Cys
1				5					10				15	

<210> 3783

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<212> PRT

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<220>

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<400> 3783

Arg	Asp	Leu	Leu	Asp	Thr	Ala	Ser	Ala	Leu	Tyr	Arg	Glu	Ala	Leu	Glu
1				5					10					15	
Ser	Pro	Glu	His												
			20												

<210> 3784

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3784

Ala	Gly	Pro	Leu	Glu	Glu	Glu	Leu	Pro	Arg	Leu	Ala	Asp	Glu	Gly
1				5					10					15

<210> 3785

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3785

Asn	Arg	Arg	Val	Ala	Glu	Asp	Leu	Asn	Leu	Gly	Asn	Leu	Asn	Val
1				5					10					15

<210> 3786

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 3786

Val	Gly	Pro	Leu	Thr	Val	Asn	Glu	Lys	Arg	Arg	Leu	Lys	Leu	Ile
1				5					10					15

<210> 3787

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 3787

Thr	Lys	Tyr	Leu	Pro	Leu	Asp	Lys	Gly	Ile	Lys	Pro	Tyr	Tyr	Pro
1				5					10					15

<210> 3788  
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<212> PRT  
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<220>  
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<400> 3788  
Gly Gly Val Phe Leu Val Asp Lys Asn Pro His Asn Thr Thr Glu  
1 5 10 15

<210> 3789  
<211> 15  
<212> PRT  
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<220>  
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<400> 3789  
Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn  
1 5 10 15

<210> 3790  
<211> 15  
<212> PRT  
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<400> 3790  
Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His  
1 5 10 15

<210> 3791  
<211> 15  
<212> PRT  
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<220>  
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<400> 3791  
Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys Lys Gln  
1 5 10 15

<210> 3792  
<211> 15  
<212> PRT  
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<220>  
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<400> 3792  
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1	5	10	15
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<210> 3793  
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<212> PRT  
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<220>  
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<400> 3793  
Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu  
1 5 10 15  
Thr Ile Pro Gln  
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<210> 3794  
<211> 20  
<212> PRT  
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<220>  
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<400> 3794  
Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Thr Thr  
1 5 10 15  
Val Cys Leu Gly  
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<210> 3795  
<211> 20  
<212> PRT  
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<220>  
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<400> 3795  
Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile  
1 5 10 15  
Leu Leu Leu Cys  
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<210> 3796  
<211> 15  
<212> PRT  
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<400> 3796  
Pro Gln Ala Met Gln Trp Asn Ser Thr Thr Phe His Gln Thr Leu  
1 5 10 15

<210> 3797

<211> 15  
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<400> 3797  
Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser  
1 5 10 15

<210> 3798  
<211> 15  
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<220>  
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<400> 3798  
Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val  
1 5 10 15

<210> 3799  
<211> 20  
<212> PRT  
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<220>  
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<400> 3799  
Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro  
1 5 10 15  
Asn Ala Pro Ile  
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<210> 3800  
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<220>  
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<400> 3800  
Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro  
1 5 10 15

<210> 3801  
<211> 15  
<212> PRT  
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<220>  
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<400> 3801

Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys Ile  
1 5 10 15

<210> 3802  
<211> 15  
<212> PRT  
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<220>  
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<400> 3802  
Lys Gln Cys Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp  
1 5 10 15

<210> 3803  
<211> 15  
<212> PRT  
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<220>  
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<400> 3803  
Ala Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro  
1 5 10 15

<210> 3804  
<211> 15  
<212> PRT  
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<220>  
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<400> 3804  
Pro Asp Arg Val His Phe Ala Ser Pro Leu His Val Ala Trp Arg  
1 5 10 15

<210> 3805  
<211> 15  
<212> PRT  
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<220>  
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<400> 3805  
Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu  
1 5 10 15

<210> 3806  
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<400> 3806

Lys	Gln	Ala	Phe	Thr	Phe	Ser	Pro	Thr	Tyr	Lys	Ala	Phe	Leu	Cys
1				5					10					15

<210> 3807

<211> 15

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<400> 3807

Ala	Gly	Phe	Phe	Leu	Leu	Thr	Arg	Ile	Leu	Thr	Ile	Pro	Gln	Ser
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<400> 3808

Gly	Thr	Ser	Phe	Val	Tyr	Val	Pro	Ser	Ala	Leu	Asn	Pro	Ala	Asp
1				5					10					15

<210> 3809

<211> 15

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<400> 3809

Ser	Phe	Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala	Tyr	Arg	Pro	Pro
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<400> 3810

Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala	Tyr	Arg	Pro	Pro	Asn	Ala
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<212> PRT

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<400> 3811

Val	Ser	Phe	Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala	Tyr	Arg	Pro	Pro
1				5					10					15	
Asn	Ala	Pro	Ile												
			20												

<210> 3812

<211> 15

<212> PRT

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<400> 3812

Arg	His	Tyr	Leu	His	Thr	Leu	Trp	Lys	Ala	Gly	Ile	Leu	Tyr	Lys
1				5					10					15

<210> 3813

<211> 15

<212> PRT

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<400> 3813

Leu	Val	Pro	Phe	Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	Thr	Val
1				5					10					15

<210> 3814

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<212> PRT

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<400> 3814

Leu	His	Leu	Tyr	Ser	His	Pro	Ile	Ile	Leu	Gly	Phe	Arg	Lys	Ile
1				5					10					15

<210> 3815

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<400> 3815

Pro	Phe	Leu	Leu	Ala	Gln	Phe	Thr	Ser	Ala	Ile	Cys	Ser	Val	Val
1				5					10					15

<210> 3816  
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<220>  
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<400> 3816  
Lys Gln Cys Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp  
1 5 10 15

<210> 3817  
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<220>  
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<400> 3817  
Ala Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro  
1 5 10 15

<210> 3818  
<211> 20  
<212> PRT  
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<400> 3818  
Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu  
1 5 10 15  
Met Thr Leu Ala  
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<210> 3819  
<211> 15  
<212> PRT  
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<400> 3819  
Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu  
1 5 10 15

<210> 3820  
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<400> 3820

Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn  
1 5 10 15

<210> 3821  
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<212> PRT  
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<400> 3821  
Val Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu Lys Leu Ile  
1 5 10 15

<210> 3822  
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<400> 3822  
Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe  
1 5 10 15

<210> 3823  
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<400> 3823  
Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His  
1 5 10 15

<210> 3824  
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<212> PRT  
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<400> 3824  
Phe Leu Pro Ser Asp Phe Phe Pro Ser Val  
1 5 10

<210> 3825  
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<400> 3825

Phe Leu Leu Thr Arg Ile Leu Thr Ile  
1 5

<210> 3826

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<400> 3826

Ala Leu Met Pro Leu Tyr Ala Cys Ile  
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<210> 3827

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<400> 3827

Trp Leu Ser Leu Leu Val Pro Phe Val  
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<210> 3828

<211> 9

<212> PRT

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<400> 3828

Tyr Met Asp Asp Val Val Leu Gly Val  
1 5

<210> 3829

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3829

Gly Leu Ser Arg Tyr Val Ala Arg Leu  
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<210> 3830

<211> 9

<212> PRT

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<220>

<223> Artificial Peptide

<400> 3830

Phe Leu Leu Ser Leu Gly Ile His Leu  
1 5

<210> 3831

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3831

Leu Leu Pro Ile Phe Phe Cys Leu Trp Val  
1 5 10

<210> 3832

<211> 10

<212> PRT

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<220>

<223> Artificial Peptide

<400> 3832

Leu Leu Val Pro Phe Val Gln Trp Phe Val  
1 5 10

<210> 3833

<211> 11

<212> PRT

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<400> 3833

His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys  
1 5 10

<210> 3834

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<400> 3834

Ser Thr Leu Pro Glu Thr Thr Val Val Arg Arg  
1 5 10

<210> 3835  
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<400> 3835  
Asn Val Ser Ile Pro Trp Thr His Lys  
1 5

<210> 3836  
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<212> PRT  
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<400> 3836  
Leu Val Val Asp Phe Ser Gln Phe Ser Arg  
1 5 10

<210> 3837  
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<400> 3837  
Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys  
1 5 10

<210> 3838  
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<400> 3838  
Ser Ala Ile Cys Ser Val Val Arg Arg  
1 5

<210> 3839  
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<400> 3839  
Lys Val Gly Asn Phe Thr Gly Leu Tyr

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<210> 3840  
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<400> 3840  
Phe Pro His Cys Leu Ala Phe Ser Tyr Met  
1 5 10

<210> 3841  
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<212> PRT  
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<400> 3841  
Leu Pro Ser Asp Phe Phe Pro Ser Val  
1 5

<210> 3842  
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<220>  
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<400> 3842  
Ile Pro Ile Pro Ser Ser Trp Ala Phe  
1 5

<210> 3843  
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<212> PRT  
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<220>  
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<400> 3843  
His Pro Ala Ala Met Pro His Leu Leu  
1 5

<210> 3844  
<211> 11  
<212> PRT  
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<220>  
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<400> 3844

Tyr Pro Ala Leu Met Pro Leu Tyr Ala Cys Ile  
1 5 10

<210> 3845

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3845

Thr Pro Ala Arg Val Thr Gly Gly Val Phe  
1 5 10

<210> 3846

<211> 10

<212> PRT

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<400> 3846

Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr  
1 5 10

<210> 3847

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3847

Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr  
1 5 10

<210> 3848

<211> 11

<212> PRT

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<220>

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<400> 3848

Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr  
1 5 10

<210> 3849

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3849

Arg Trp Met Cys Leu Arg Arg Phe Ile Ile  
1 5 10

<210> 3850

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3850

Ser Trp Leu Ser Leu Leu Val Pro Phe  
1 5

<210> 3851

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3851

Ser Trp Trp Thr Ser Leu Asn Phe Leu  
1 5

<210> 3852

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3852

Glu Tyr Leu Val Ser Phe Gly Val Trp Ile  
1 5 10

<210> 3853

<211> 9

<212> PRT

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<220>

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<400> 3853

Ala Tyr Arg Pro Pro Asn Ala Pro Ile  
1 5

<210> 3854

<211> 9

<212> PRT  
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<220>  
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<400> 3854  
Trp Phe His Ile Ser Cys Leu Thr Phe  
1 5

<210> 3855  
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Ser Trp Pro Lys Phe Ala Val Pro Asn Leu  
1 5 10

<210> 3856  
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<400> 3856  
Lys Tyr Thr Ser Phe Pro Trp Leu Leu  
1 5

<210> 3857  
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<400> 3857  
Leu Tyr Ser His Pro Ile Ile Leu Gly Phe  
1 5 10

<210> 3858  
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<212> PRT  
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<400> 3858  
Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu  
1 5 10 15

<210> 3859  
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<220>  
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<400> 3859  
Lys Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys  
1 5 10 15

<210> 3860  
<211> 15  
<212> PRT  
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<400> 3860  
Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser  
1 5 10 15

<210> 3861  
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<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 3861  
Gly Thr Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp  
1 5 10 15

<210> 3862  
<211> 20  
<212> PRT  
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<220>  
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<400> 3862  
Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro  
1 5 10 15  
Asn Ala Pro Ile  
20

<210> 3863  
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<212> PRT  
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<220>  
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<400> 3863

Arg	His	Tyr	Leu	His	Thr	Leu	Trp	Lys	Ala	Gly	Ile	Leu	Tyr	Lys
1				5				10					15	

<210> 3864

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3864

Leu	Val	Pro	Phe	Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	Thr	Val
1				5					10				15	

<210> 3865

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3865

Leu	His	Leu	Tyr	Ser	His	Pro	Ile	Ile	Leu	Gly	Phe	Arg	Lys	Ile
1				5					10				15	

<210> 3866

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 3866

Pro	Phe	Leu	Leu	Ala	Gln	Phe	Thr	Ser	Ala	Ile	Cys	Ser	Val	Val
1				5					10				15	

<210> 3867

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3867

Lys	Gln	Cys	Phe	Arg	Lys	Leu	Pro	Val	Asn	Arg	Pro	Ile	Asp	Trp
1				5					10				15	

<210> 3868

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3868

Ala	Ala	Asn	Trp	Ile	Leu	Arg	Gly	Thr	Ser	Phe	Val	Tyr	Val	Pro
1				5					10					15

<210> 3869

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3869

Pro	His	His	Thr	Ala	Leu	Arg	Gln	Ala	Ile	Leu	Cys	Trp	Gly	Glu	Leu
1				5					10					15	
Met	Thr	Leu	Ala												
			20												

<210> 3870

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3870

Leu	Cys	Gln	Val	Phe	Ala	Asp	Ala	Thr	Pro	Thr	Gly	Trp	Gly	Leu
1				5					10					15

<210> 3871

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3871

Glu	Ser	Arg	Leu	Val	Val	Asp	Phe	Ser	Gln	Phe	Ser	Arg	Gly	Asn
1				5					10					15

<210> 3872

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3872

Val	Gly	Pro	Leu	Thr	Val	Asn	Glu	Lys	Arg	Arg	Leu	Lys	Leu	Ile
1				5					10					15

<210> 3873  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 3873  
Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe  
1 5 10 15

<210> 3874  
<211> 14  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 3874  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10

<210> 3875  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 3875  
Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe  
1 5 10 15  
Asn Val Val Asn Ser  
20

<210> 3876  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 3876  
Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala  
1 5 10 15

<210> 3877  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<220>

<221> MOD\_RES  
<222> (3)...(3)  
<223> Xaa = cyclohexyalanine, Phe or Tyr

<400> 3877  
Ala Lys Xaa Val Trp Ala Asn Thr Leu Lys Ala Ala Ala  
1 5 10

<210> 3878  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> DR7 preferred motif

<220>  
<221> VARIANT  
<222> (1)..(1)  
<223> Met, Phe, Leu, Ile, Val, Trp, or Tyr

<220>  
<221> VARIANT  
<222> (5)..(5)  
<223> May be any amino acid

<220>  
<221> VARIANT  
<222> (6)..(6)  
<223> Ile, Val, Met, Ser, Ala, Cys, Thr, Pro, or Leu

<220>  
<221> VARIANT  
<222> (8)..(8)  
<223> May be any amino acid

<220>  
<221> VARIANT  
<222> (9)..(9)  
<223> Ile or Val

<400> 3878  
Xaa Met Trp Ala Xaa Xaa Met Xaa Xaa  
1 5

<210> 3879  
<211> 9  
<212> PRT  
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<220>  
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<220>  
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<223> May be any amino acid

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<221> VARIANT

<222> (5)..(6)

<223> May be any amino acid

<220>

<221> VARIANT

<222> (7)..(7)

<223> Gly, Arg, or Asp

<400> 3879

Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly

1

5